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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/621,760
		Filing Date	07/17/2003
		First Named Inventor	Lewis, David
		Art Unit	
		Examiner Name	
Total Number of Pages in This Submission	>100	Attorney Docket Number	Mirus.030.09.2

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ After Allowance communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Mark K. Johnson
Signature	
Date	02/11/2005

CERTIFICATE OF TRANSMISSION/MAILING

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : **10/621,760**
Applicants : **Lewis, David et al.**
Filed : **07/17/2003**
Art Unit :
Examiner :

Docket No. : **Mirus.030.09.2**

For: **COMPOSITIONS AND PROCESSES USING SIRNA, AMPHIPATHIC COMPOUNDS AND POLYCATIONS**

Commissioner of Patents
PO Box 1450
Alexandria, VA 2231-1450

INFORMATIONAL STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. 1.56, applicant hereby calls to the attention of the Patent and Trademark Office the publications listed on the attached PTO 1449.

US patent

Patent No.	Applicant	Issue date
5,744,335	Wolff, Jon et al.	04/28/1998
6,180,784	Wolff, Jon et al.	01/30/2001

US application publication

Publication No.	Applicant	Publication date
US-2003-0143204	Lewis, David et al.	07/03/2003
US-2003-0125281	Lewis, David et al.	07/03/2003

REFERENCES CITED

1. Bernstein et al., "Role for a bidentate ribonuclease in the initiation step of RNA interference," Nature; Jan. 2001, vol. 409, pp. 363-366
2. Caplen et al., "dsRNA-mediated gene silencing in cultured drosophila cells: a tissue culture model for the analysis of RNA interference," Gene; 2000, vol. 252, pp. 95-105
3. Caplen et al., "Specific inhibition of gene expression by small double-stranded RNAs in invertebrate and vertebrate systems," PNAS; 2001, vol. 98, no. 17.
4. Catalanotto et al., "Gene silencing in worms and fungi," Nature; Mar. 2000, vol. 404, p. 245
5. Clemens et al., "The double-stranded RNA-dependent protein kinase PKR: structure and function," Journal of Interferon and Cytokine Research; 1997, vol. 17, pp. 503-524
6. Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," Nature; May 2001, vol. 411, pp. 494-498
7. Elbashir et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs," Genes and Development; 2001, vol. 15, pp. 188-200
8. Fagard et al., "AG01, QDE-2, and RDE-1 are related proteins required for post-transcriptional gene silencing in plants, quelling in fungi, and RNA interference in animals," PNAS; Oct. 2000, vol. 97, no. 21, pp. 11650-11654
9. Gao et al., "A novel cationic liposome reagent for efficient transfection of mammalian cells," Biochemical and Biophysical Research Communications; Aug. 1991, vol. 179, no. 1, pp. 280-285
10. Hamilton et al., "A species of small antisense RNA in posttranscriptional gene silencing in plants," Science; Oct. 1999, vol. 286, pp. 950-952
11. Hammond et al., "An RNA-directed nuclease mediates post-transcriptional gene silencing in drosophila cells," Nature; Mar. 2000, vol. 404, pp. 293-296
12. Hammond et al., "Post-transcriptional gene silencing by double-stranded RNA," Nature; Feb. 2001, vol. 2, pp. 110-119
13. Ketting et al., "mut-7 of C. elegans, required for transposon silencing and RNA interference, is a homolog of Werner syndrome helicase and RnaseD," Cell; Oct. 1999, vol. 99, pp. 133-141
14. Leventis et al., "Interactions of mammalian cells with lipid dispersions containing novel metabolizable cationic amphiphiles," Biochimica et Biophysica Acta.; 1990, vol. 1023, pp. 124-132
15. Manche et al., "Interactions between double-stranded RNA regulators and the protein kinase DAI," Molecular and Cellular Biology; Nov. 1992, vol. 12, no. 11, pp. 5238-5248
16. Minks et al., "Structural requirements of Double-Stranded RNA for the activation of 2', 5'-oligo(A) polymerase and protein kinase of interferon-treated HeLa Cells," The Journal of Biological Chemistry; Oct. 1979, vol. 254, no. 30, pp. 10180-10183

17. Parrish et al., "Functional anatomy of a dsRNA trigger: differential requirement for the two trigger strands in RNA interference," Molecular Cell; Nov. 2000, vol. 6, pp. 1077-1087

18. Player et al., "The 2-5 system: Modulation of Viral and cellular processes through acceleration of RNA degradation," Pharmacol. Ther.; 1998, vol. 78, no. 2, pp. 55-113

19. Reidhaar-Olson et al., "The impact of genomics tools on target discovery," Current Drug Discovery; Apr. 2001

20. Sharp "RNAi and double-strand RNA," Genes and Development; 1999, vol. 13, pp. 139-141

21. Sharp et al., "RNA-Interference-2001," Genes and Development; 2001, vol. 15, pp. 485-490.

22. Stark et al., "How cells respond to interferons," Annu. Rev. Biochem.; 1998, vol. 67, pp. 227-264

23. Summerton et al., "Morpholino and phosphorothioate antisense oligomers compared in cell-free and in-cell systems," Antisense and Nucleic Acid Drug Development; 1997, vol. 7, pp. 63-70

24. Svoboda et al., "Selective reduction of dormant maternal mRNAs in mouse oocytes by RNA interference," Development; 2000, vol. 127, pp. 4147-4156

25. Tabara et al., "The rde-1 gene, RNA interference, and transposon silencing in C. elegans," Cell; Oct. 1999, vol. 99, pp. 123-132

26. Tuschl et al., "Targeted mRNA degradation by double-stranded RNA in vitro," Genes and Development; 1999, vol. 13, pp. 3191-3197

27. Wianny et al., "Specific interference with gene function by double-stranded RNA in early mouse development," Nature Cell Biology; Feb. 2000, vol. 2, pp. 70-75

28. Yang et al., "Evidence that processed small dsRNAs may mediate sequence-specific mRNA degradation during in drosophila embryos," Current Biology; 2000, vol. 10, pp. 1191-1200

29. Zamore et al., " RNAi: Double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals," Cell; Mar. 2000, vol. 101, pp. 25-33

Applicant respectfully requests that these publications be expressly considered during the prosecution of this application and made of record herein and appear among the 'References Cited' on any patent to issue herefrom.

Respectfully submitted,

Mark K. Johnson Reg. No. 35,909
P.O. Box 510644
New Berlin, WI 53151-0644
(414) 821-5690

I hereby certify that this correspondence is being sent by United States Postal Service mail to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on: 2/11/2005.

Kirk Ekena

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/621,760
				Filing Date	07/17/2003
				First Named Inventor	Lewis, David
				Art Unit	
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	Mirus.030.09.2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number – Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevent Passages or Relevant Figures Appear
		US-5,744,335	04/28/1998	Wolff, Jon A. et al.	
		US-6,180,784	01/30/2001	Wolff, Jon A. et al.	
		US-2003-0143204	07/03/2003	Lewis, David et al.	
		US-2003-0125281	07/03/2003	Lewis, David et al.	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner Initials		Document Number	Publication Date	Country or Patent Office	Class	Sub Class	Transl. yes	Transl. no

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.		T
		Bernstein et al., "Role for a bidentate ribonuclease in the initiation step of RNA interference," Nature; Jan. 2001, vol. 409, pp. 363-366	
		Caplen et al., "dsRNA-mediated gene silencing in cultured drosophila cells: a tissue culture model for the analysis of RNA interference," Gene; 2000, vol. 252, pp. 95-105	
		Caplen et al., "Specific inhibition of gene expression by small double-stranded RNAs in invertebrate and vertebrate systems," PNAS; 2001, vol. 98, no. 17.	
		Catalanotto et al., "Gene silencing in worms and fungi," Nature; Mar. 2000, vol. 404, p. 245	
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		Fagard et al., "AG01, QDE-2, and RDE-1 are related proteins required for post-transcriptional gene silencing in plants, quelling in fungi, and RNA interference in animals," PNAS; Oct. 2000, vol. 97, no. 21, pp. 11650-11654	
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		Hamilton et al., "A species of small antisense RNA in posttranscriptional gene silencing in plants," Science; Oct. 1999, vol. 286, pp. 950-952	
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		RNA," Nature; Feb. 2001, vol. 2, pp. 110-119	
		Ketting et al., "mut-7 of C. elegans, required for transposon silencing and RNA interference, is a homolog of Werner syndrome helicase and RnaseD," Cell; Oct. 1999, vol. 99, pp. 133-141	
		Leventis et al., "Interactions of mammalian cells with lipid dispersions containing novel metabolizable cationic amphiphiles," Biochimica et Biophysica Acta.; 1990, vol. 1023, pp. 124-132	
		Manche et al., "Interactions between double-stranded RNA regulators and the protein kinase DAI," Molecular and Cellular Biology; Nov. 1992, vol. 12, no. 11, pp. 5238-5248	
		Minks et al., "Structural requirements of Double-Stranded RNA for the activation of 2', 5'-oligo(A) polymerase and protein kinase of interferon-treated HeLa Cells," The Journal of Biological Chemistry; Oct. 1979, vol. 254, no. 30, pp. 10180-10183	
		Parrish et al., "Functional anatomy of a dsRNA trigger: differential requirement for the two trigger strands in RNA interference," Molecular Cell; Nov. 2000, vol. 6, pp. 1077-1087	
		Player et al., "The 2-5 system: Modulation of Viral and cellular processes through acceleration of RNA degradation," Pharmacol. Ther.; 1998, vol. 78, no. 2, pp. 55-113	
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		Stark et al., "How cells respond to interferons," Annu. Rev. Biochem.; 1998, vol. 67, pp. 227-264	
		Summerton et al., "Morpholino and phosphorothioate antisense oligomers compared in cell-free and in-cell systems," Antisense and Nucleic Acid Drug Development; 1997, vol. 7, pp. 63-70	
		Svoboda et al., "Selective reduction of dormant maternal mRNAs in mouse oocytes by RNA interference," Development; 2000, vol. 127, pp. 4147-4156	
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		Tuschl et al., "Targeted mRNA degradation by double-stranded RNA in vitro," Genes and Development; 1999, vol. 13, pp. 3191-3197	
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		Zamore et al., " RNAi: Double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals," Cell; Mar. 2000, vol. 101, pp. 25-33	

Examiner Signature		Date Considered	